

PORT OF CORPUS CHRISTI MAJOR PROJECTS



2004 Galveston District Dredging Conference

September 21, 2004

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Senior Project Engineer

PORT OF CORPUS CHRISTI



- Originated: Aug. 14, 1926
- Current: 45' Channel Depth
- Proposed: 52' Depth - WRDA 2004
- 6th Largest U.S. Port
- 89.4% Petrochemical
- Annual Revenues
 - \$25.8 Million Gross
 - \$2.8 Million Net
- Taxing Ability

PORT OF CORPUS CHRISTI

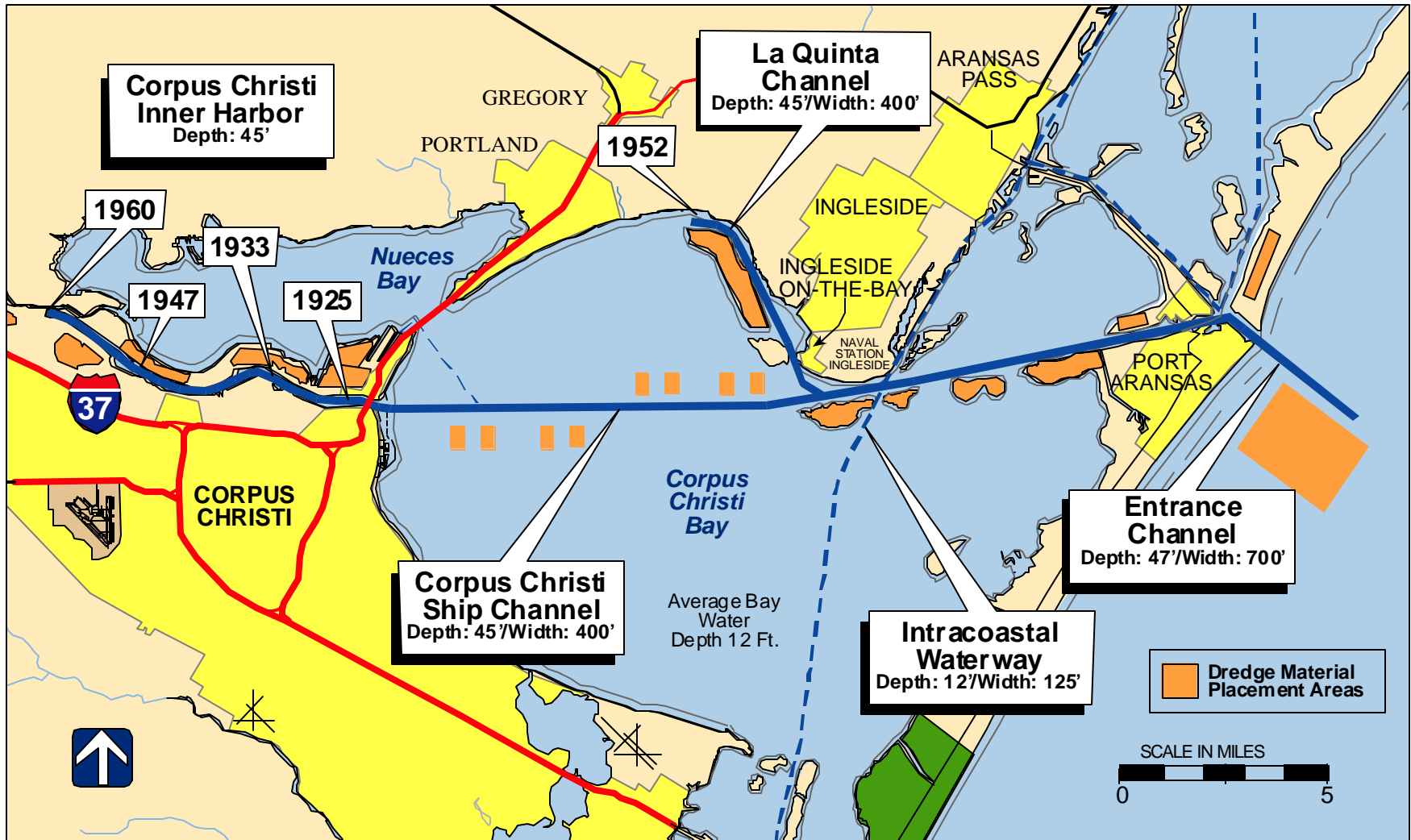
↓ Four Major Refineries

- Petroleum Is 89.4% of Tonnage
- Process 870,000 Bbls Per Day of Crude Oil
- 13 % of Texas Refinery Capacity
- 5% of Total Nation's Capacity
- Provide 90% of Austin's Gasoline
- Provide 67% of Dfw's Jet Fuel
- Port Industries Consume 39 Million Gallons Per Day or 40% of Local Water Supply

PORT OF CORPUS CHRISTI IMPACT ON THE ECONOMY

- ↓ Creates over 39,900 Jobs (Direct, Indirect & Induced)
 - 11,800 Jobs Directly Marine Related
 - 8,900 Jobs Induced by Marine Activity
 - 19,100 Jobs Indirectly Related to Port Activity
- ↓ Provides \$2.2 Billion in Personal Income
- ↓ Generates
 - \$1.2 Billion in Business Revenue
 - \$195 Million in State and Local Taxes
 - \$1.5 Million in Indirect Purchases
 - \$13.4 Million in U.S. Customs

EXISTING CHANNEL SYSTEM



LAND AND FACILITIES



- 36 Miles of Ship Channel
- 26 Public Docks
- 35 Private Docks
- 21,000 Acres of Property
- Over 125 Acres
Improved Outside
Storage
- 2.0 Million Square Feet
of Warehouse
- 26 Miles of Rail Tracks
- 3 Major Rail Carriers

DIVERSIFICATION

Efforts Started in 1992

- Completed Projects:

-  Cargo Dock 8 and Heavy Lift Crane
-  Cargo Dock 9 Expansion and Upgrade
-  Cargo Terminals on North and South Sides
-  Major Land Acquisition
-  Refrigerated Storage Facility
-  Solomon P. Ortiz International Center

- Current Projects:

-  Channel Improvements
-  Harbor Island Redevelopment
-  LaQuinta Trade Gateway
-  Harbor Bridge Replacement
-  Fulton Trade Corridor
-  Oil Dock Improvements
-  Efforts to Attract Cruise Ships
-  Water Taxi
-  Baseball Stadium
-  LNG Projects
-  Military Cargo
-  Security Enhancements

MILITARY CARGO

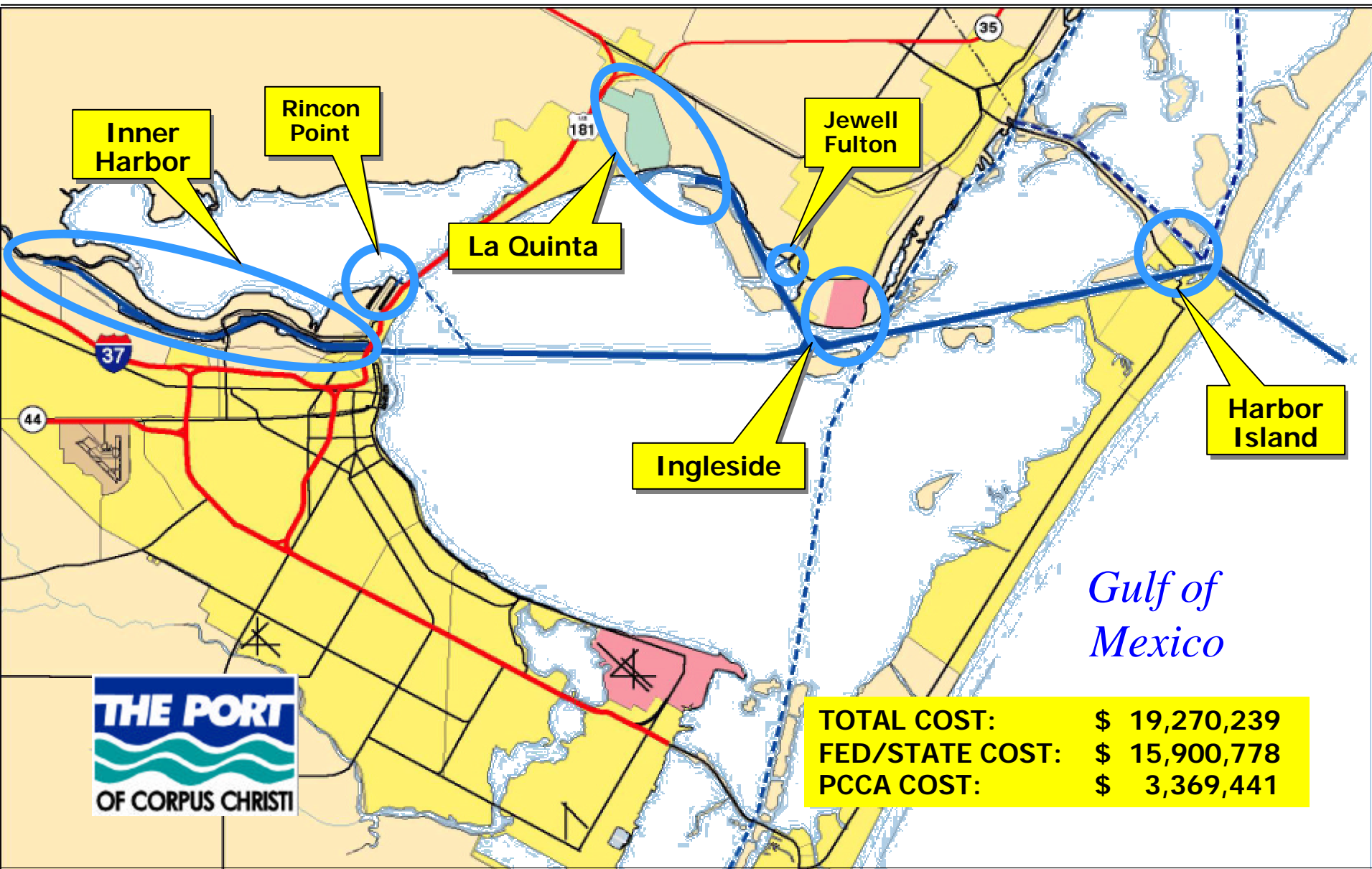
(22 Jan 03 through 7 Sept 04)

- Loaded/Unloaded 53 Ships
- Handled 33,216 Pieces of Equipment
- Using 7,693 Railcars and 2,947 Trucks



Handled the **MOST** Military Ships of Any U. S. Port
(Expect 8 more ships by end of 2004)

SECURITY/VTIS ENHANCEMENTS



Security Projects Funding Summary

Project	Award	Match	Total
Grant 1 Strategic Docks	\$ 2,273,277	\$ 974,261	\$ 3,247,538
Grant 2 Hazardous Docks	\$ 3,892,875	\$ 973,219	\$ 4,866,054
Grant 2 La Quinta	\$ 283,406	\$ 70,851	\$ 354,257
Grant 3 Harbor Island	\$ 1,237,840	\$ 320,910	\$ 1,558,750
Grant 3 Access Control	\$ 2,000,000	\$ 500,000	\$ 2,500,000
Grant 4 Hazardous Docks	\$ 2,120,800	\$ 530,200	\$ 2,651,000
VTIS	\$ 3,592,600	--	\$ 3,592,600
Texas Homeland Security	\$ 500,000	--	\$ 500,000
Totals	\$ 15,900,778	\$ 3,369,441	\$ 19,270,239

Security Projects Progress Summary

2002

2003

2004

2005

S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O

GRANT 1 – STRATEGIC DOCKS

PROGRAMMING

DESIGN / BID

CONSTRUCTION

GRANT 2 – HAZARDOUS DOCKS

DESIGN / BID

CONSTRUCTION

GRANT 3 – HARBOR ISLAND/ACCESS CONTROL

DESIGN / BID

CONSTRUCTION

GRANT 4 – HAZARDOUS DOCKS

DESIGN / BID

CONSTRUCTION

VTIS – VESSEL TRAFFIC INFORMATION SYSTEM

PROGRAMMING

DESIGN / BID

CONSTRUCTION

Potential LNG Related Facilities



HARBOR BRIDGE REPLACEMENT



620 Feet Between
Bridge Footings,
Channel Width: 300 Feet
Clearance: 138 Feet

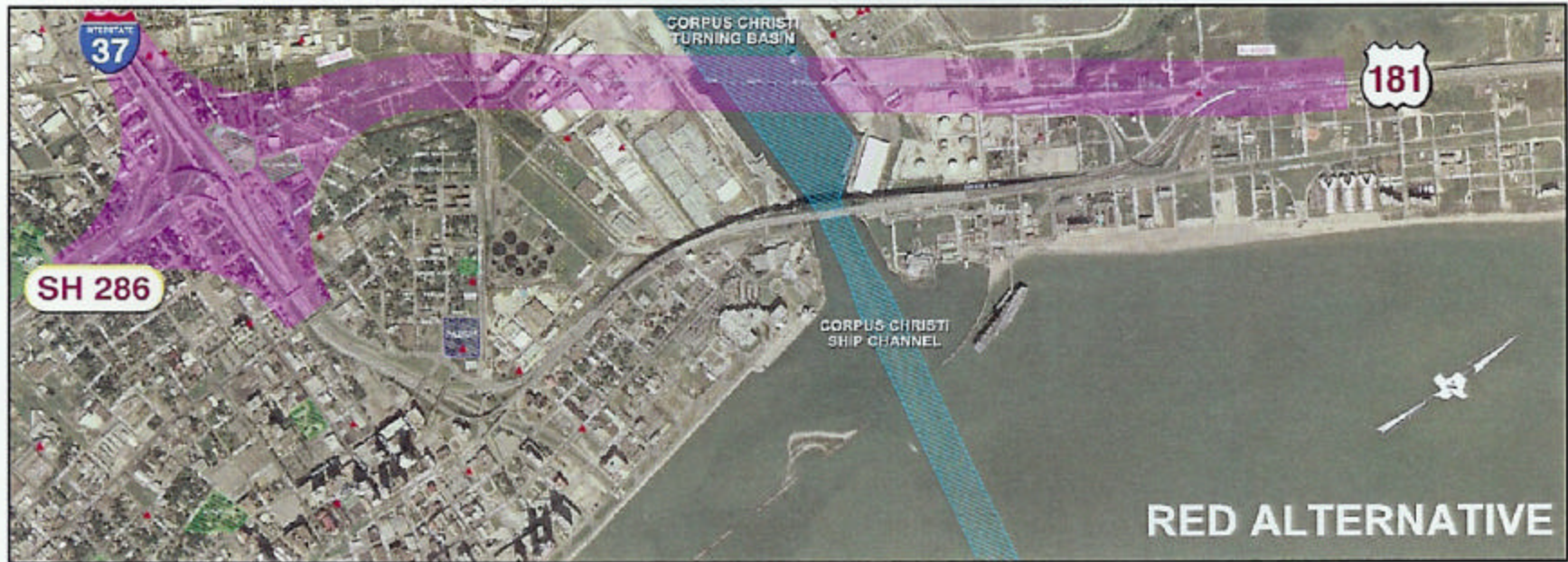
Bridge Put In Service
Oct. 23, 1959

HARBOR BRIDGE REPLACEMENT



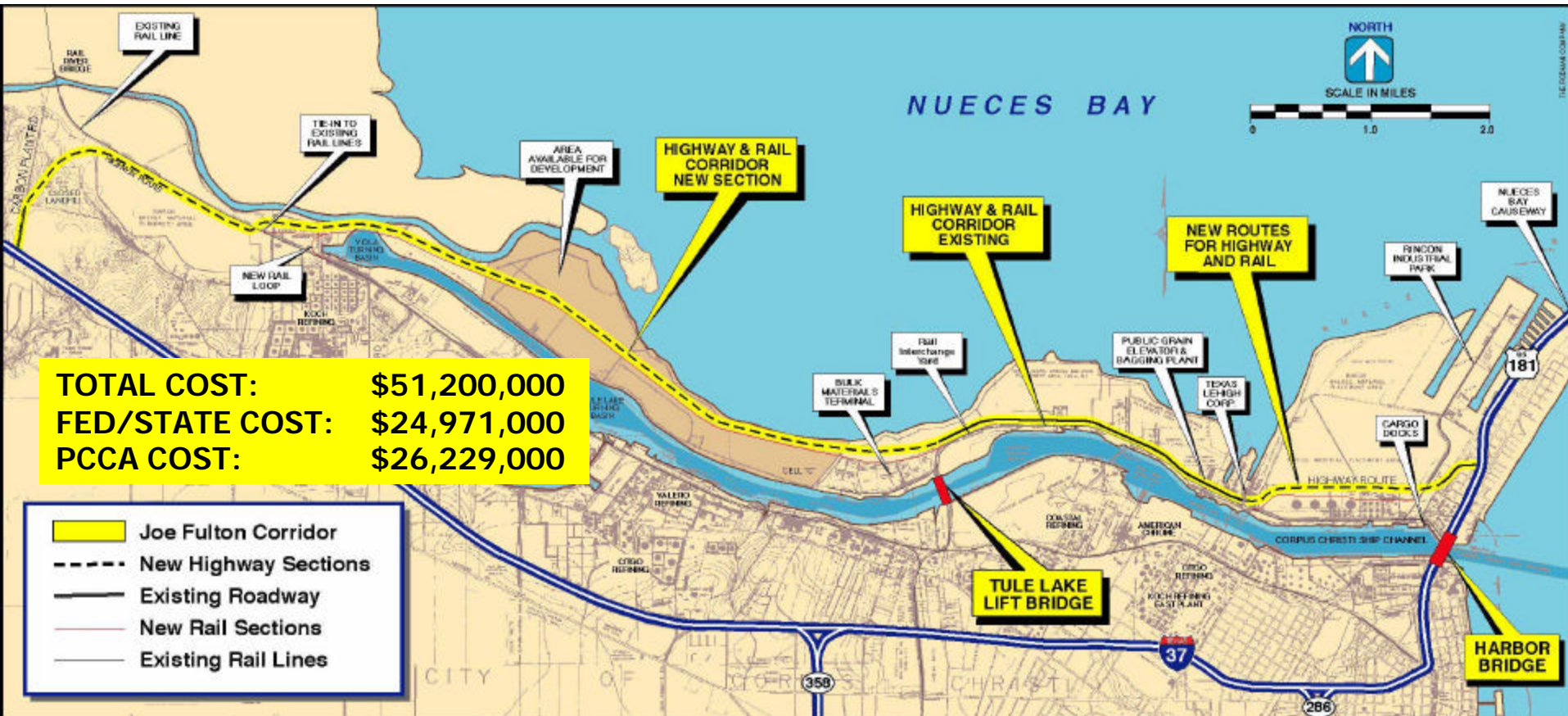
ALTERNATIVES ANALYSIS

HARBOR BRIDGE REPLACEMENT RECOMMENDED ALTERNATIVE



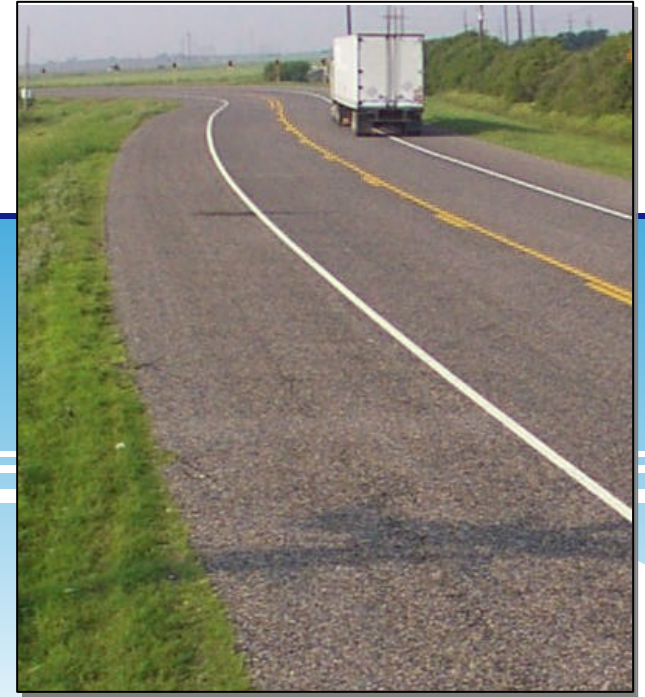
- 3,000' West of Existing
- 10,600' long x 150' wide
- Cost: \$225 Million (est.)
- Crosses 800' basin
- 200' air draft
- Completion Projection:
2015 to 2020 (6-7 yrs)

(Route Will Connect IH-37 & US-181)



- Project is a National High Priority Corridor & Part of the MPO Region Plan
- Corridor is on National Highway System (NHS)
- Improvements Will Serve Current and Future Industrial & Waterborne Transportation Facilities Along 9-Mile-Long Inner Harbor

JOE FULTON TRADE CORRIDOR



Two 12-Foot
Lanes
With Shoulders

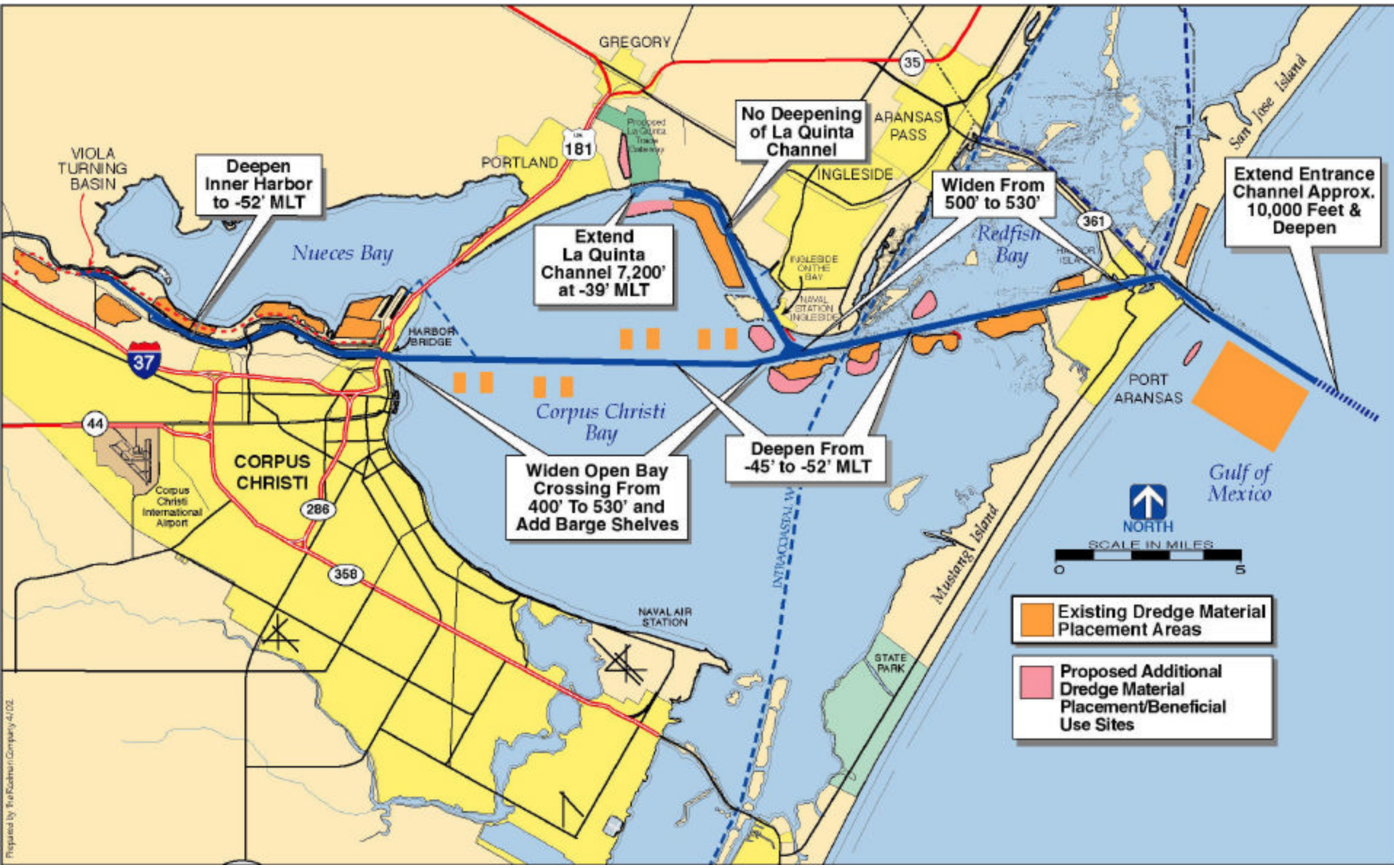
50 Ft. Rail ROW

150 Ft. Highway ROW

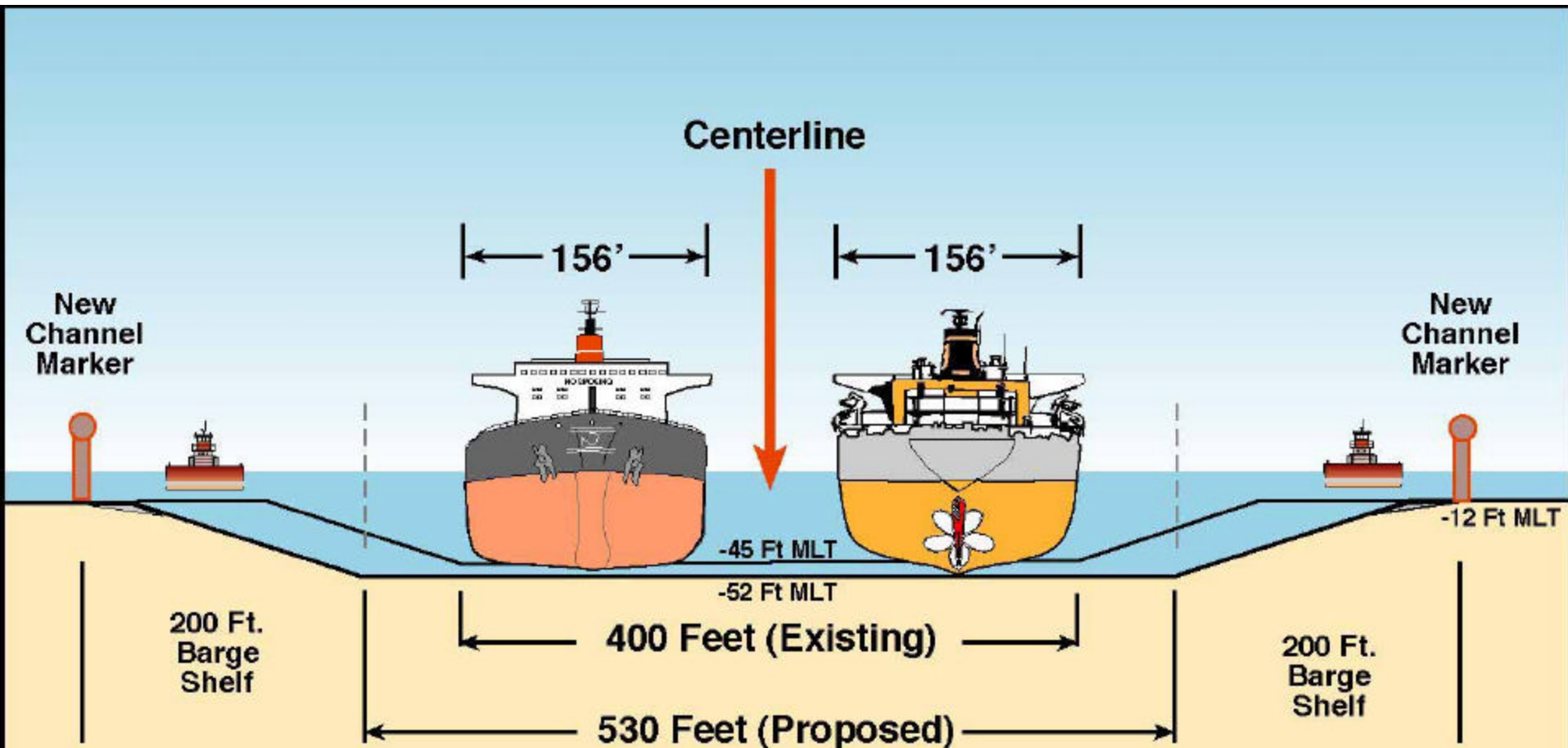
Nueces
Bay

Typical Cross-Section
Through Dredge Material Placement Area

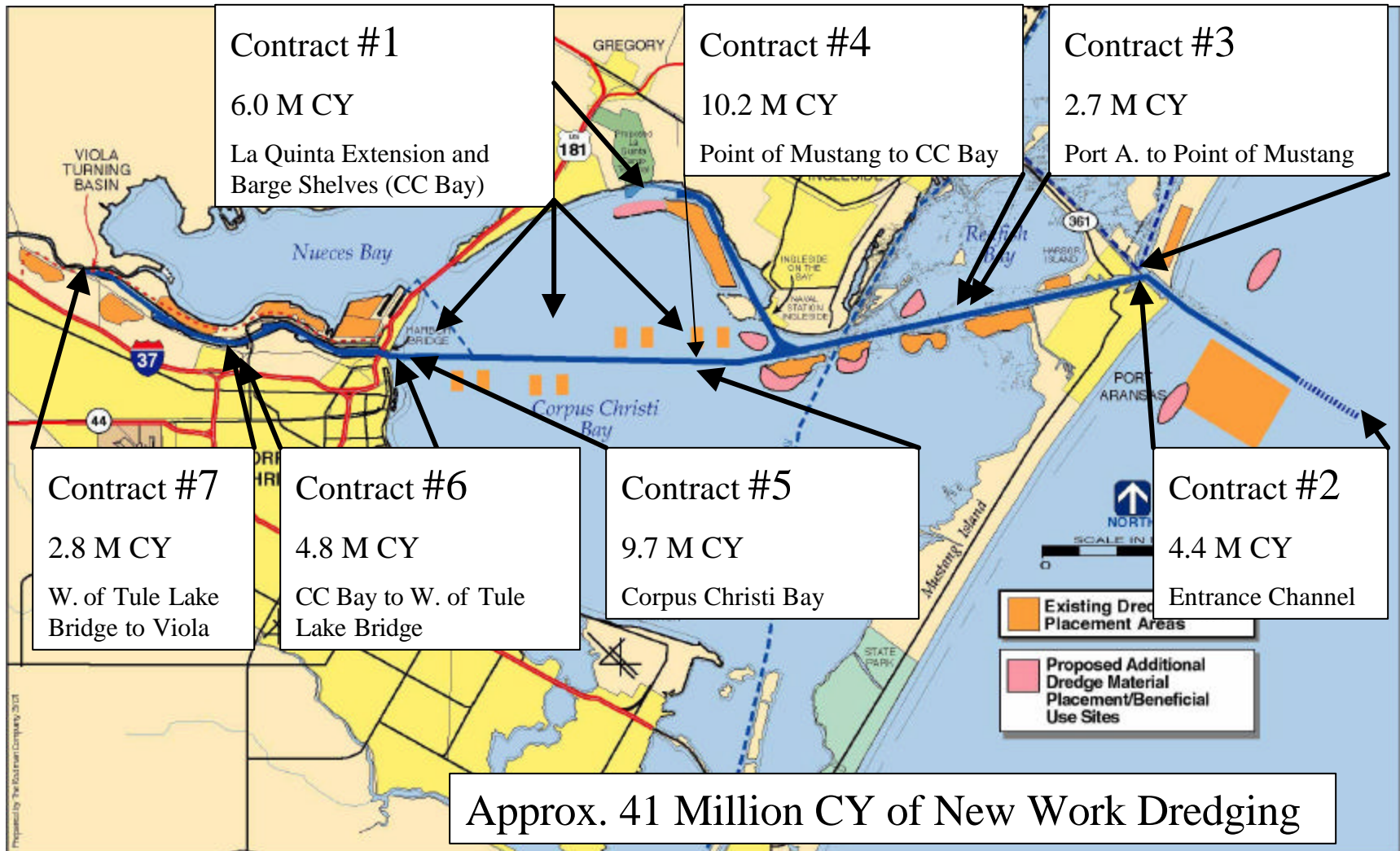
PROPOSED SHIP CHANNEL IMPROVEMENTS



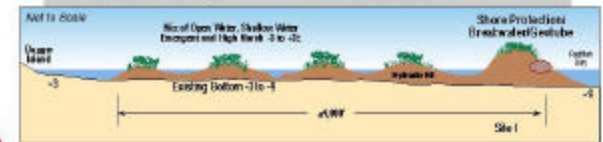
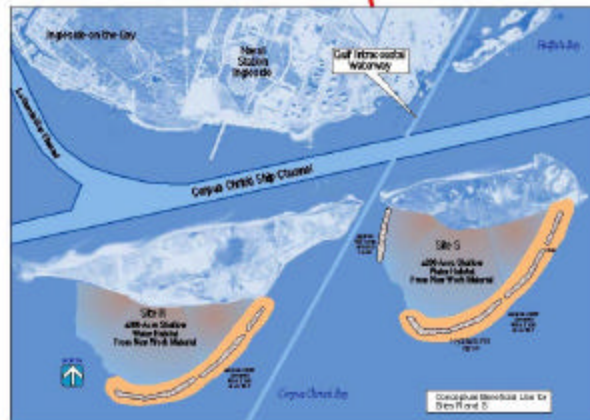
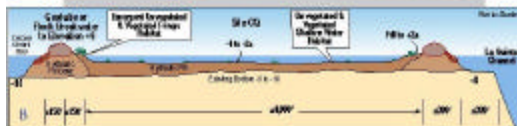
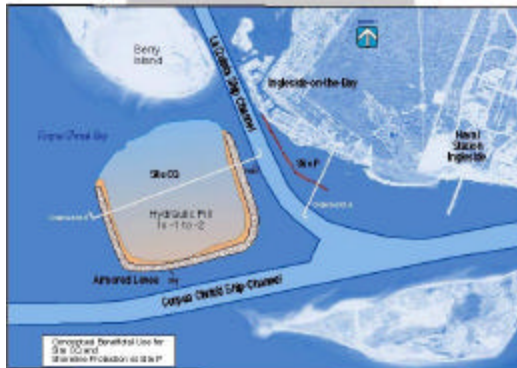
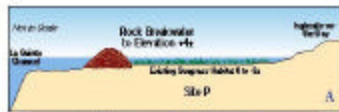
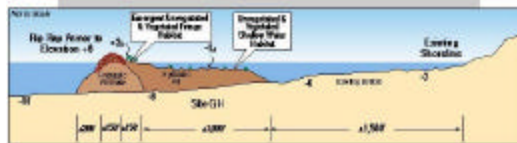
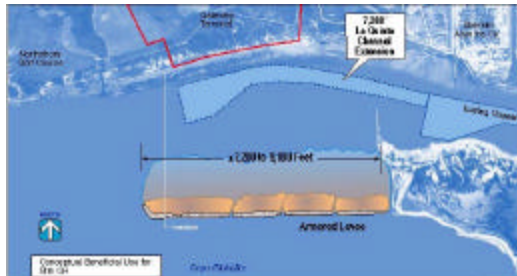
CHANNEL IMPROVEMENTS

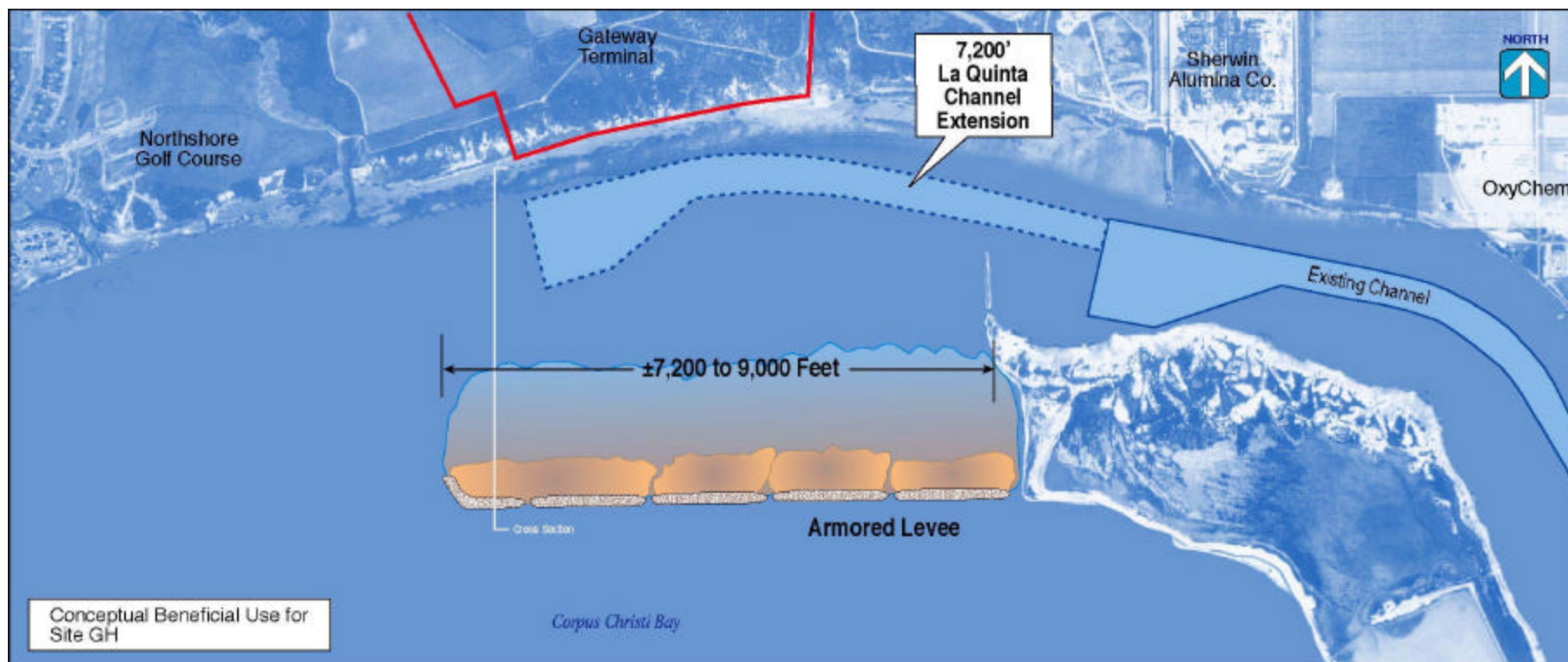
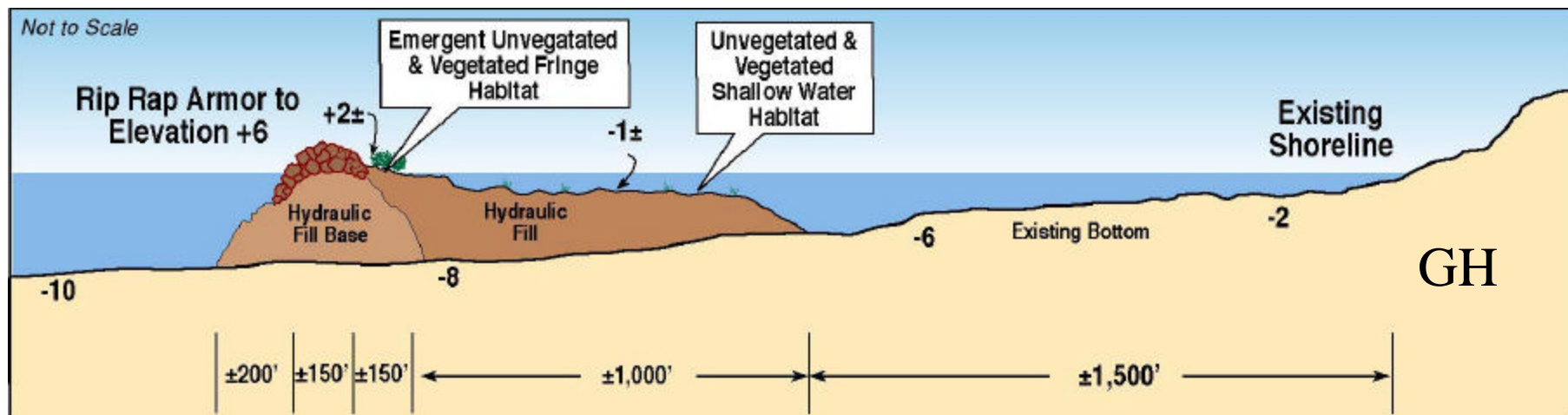


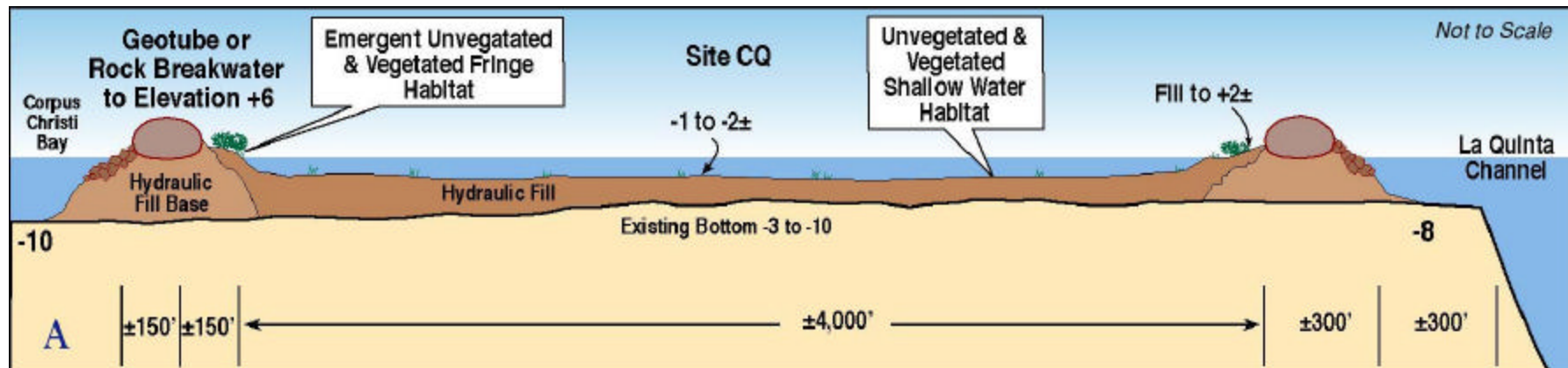
Construction Contracts

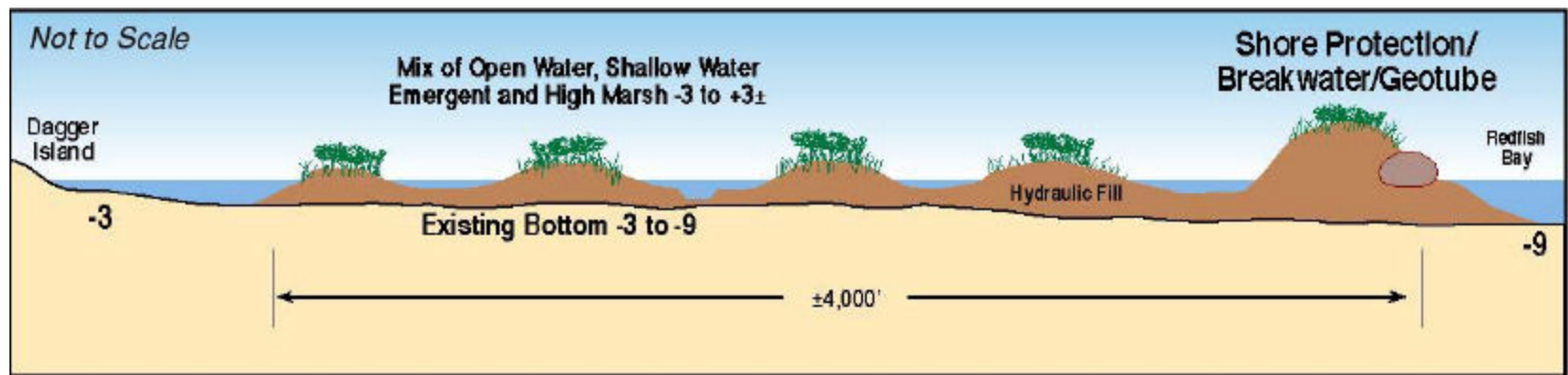


Dredge Material Management / Beneficial Use Plan

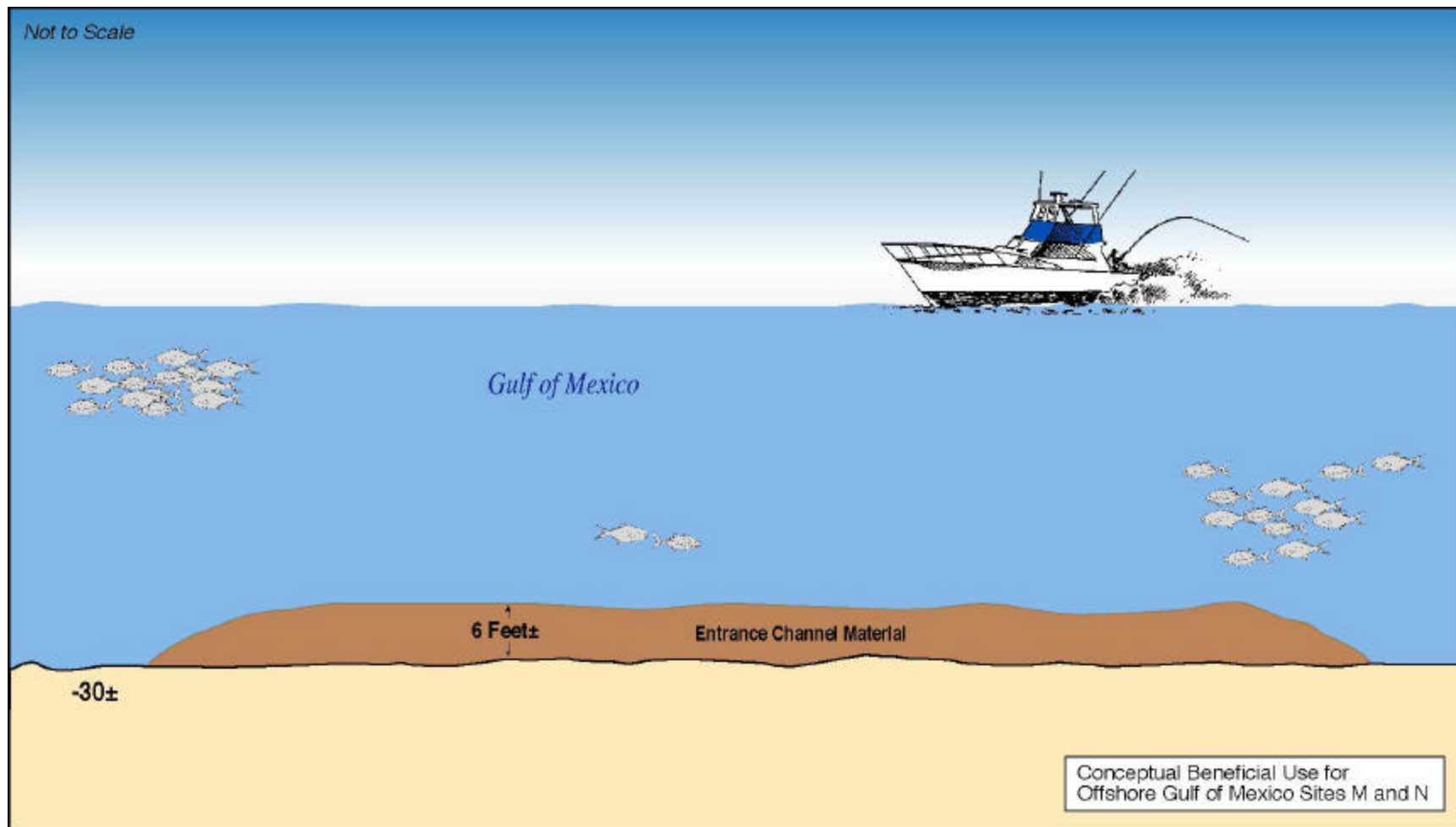


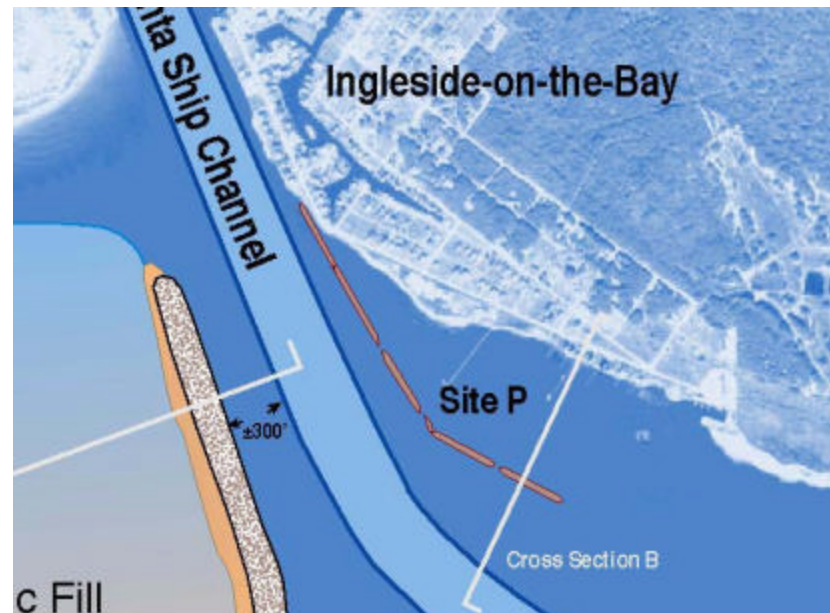
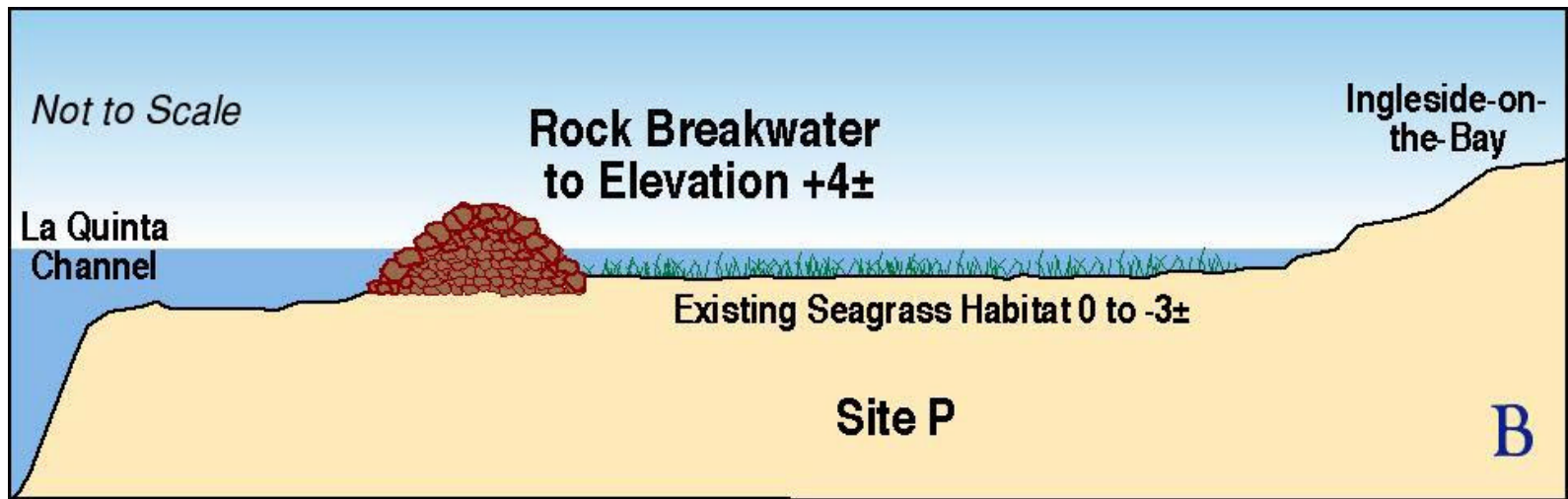






Off-shore Berm

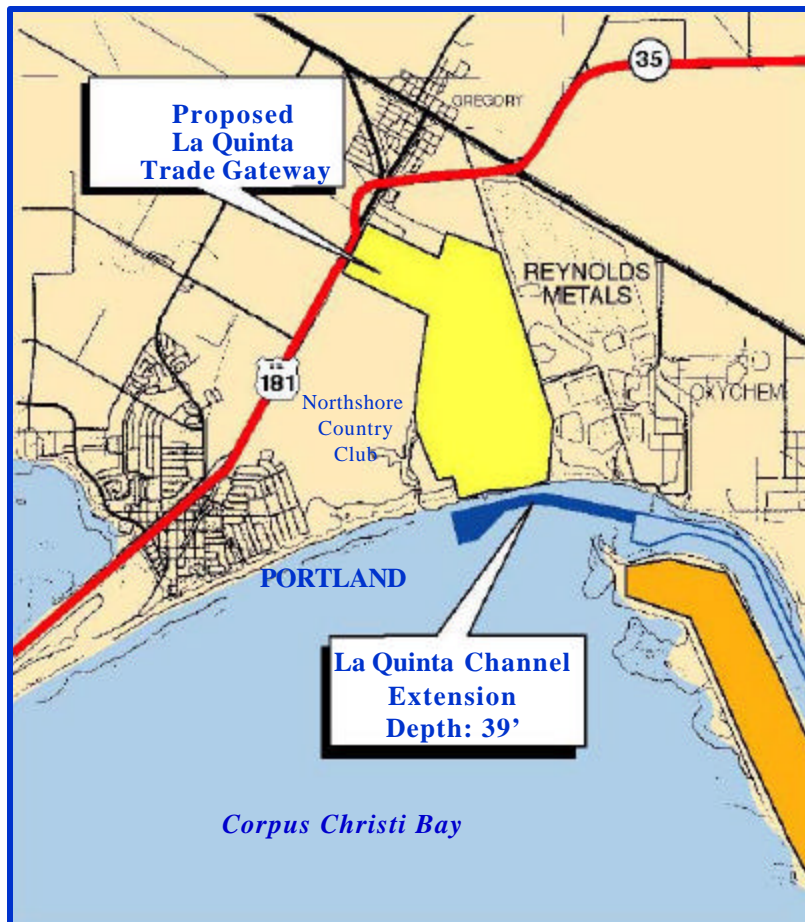




Ecosystem Restoration Features

LA QUINTA TRADE GATEWAY

USACE Permit – August 2004

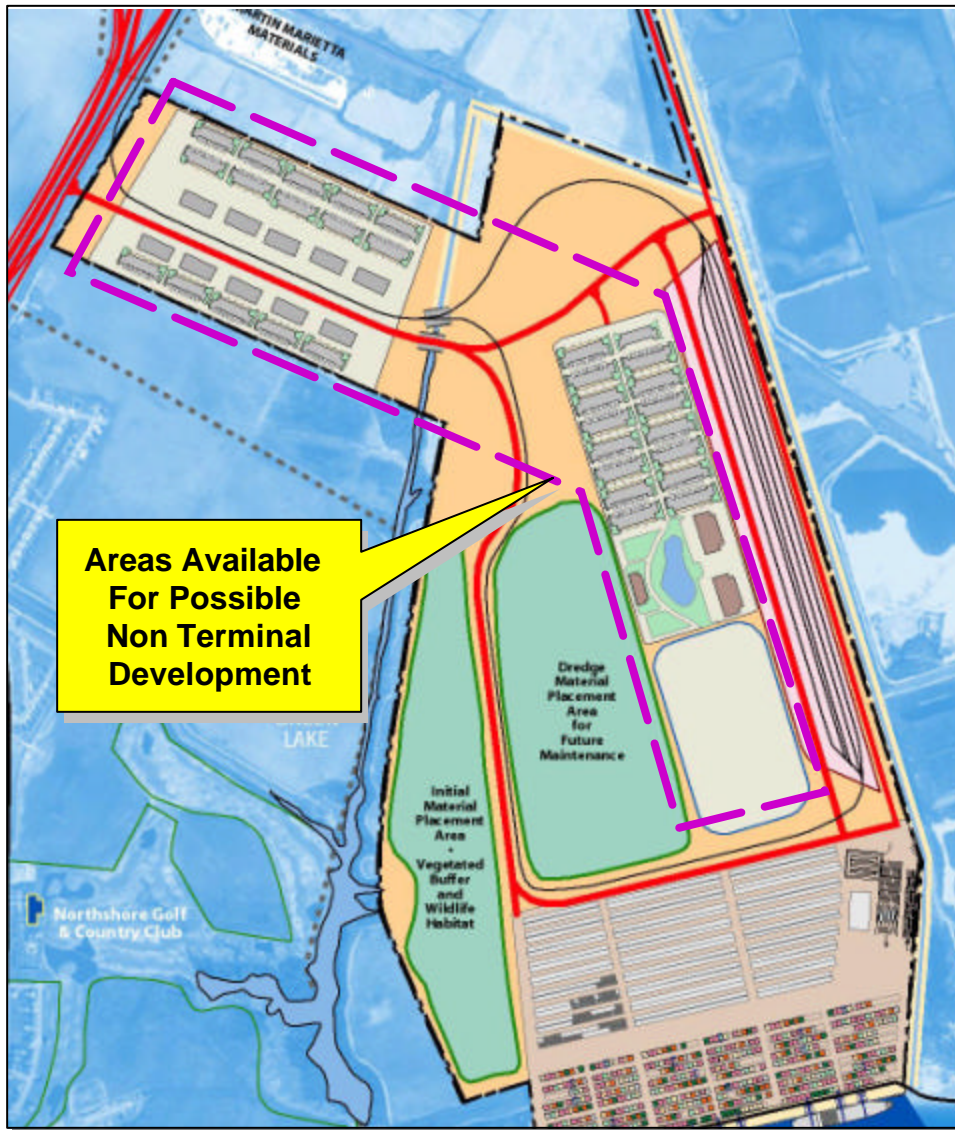


- Modern Container Terminal
- Good Highway and Rail Connections
- Increasing Container Traffic
- Saves Transportation Costs
- Channel Extension
 - 7,200 ft by 39 ft
- 1,114 acre site

Multiple Uses Planned for Large Site



Other Potential Development



- Much of the Property Will Not Be Used for the Marine Terminal or Intermodal Yard
- Possible Land Uses:
 - Light industrial
 - Warehousing and Storage
 - Cotton storage facility
 - Distribution centers
 - Terminal support services
 - Offices for freight forwarders, brokers, shipping agents



Corpus Christi Bay

LA QUINTA TRADE GATEWAY

U.S. 181

© LANMON AERIAL PHOTO
Corpus Christi, Texas

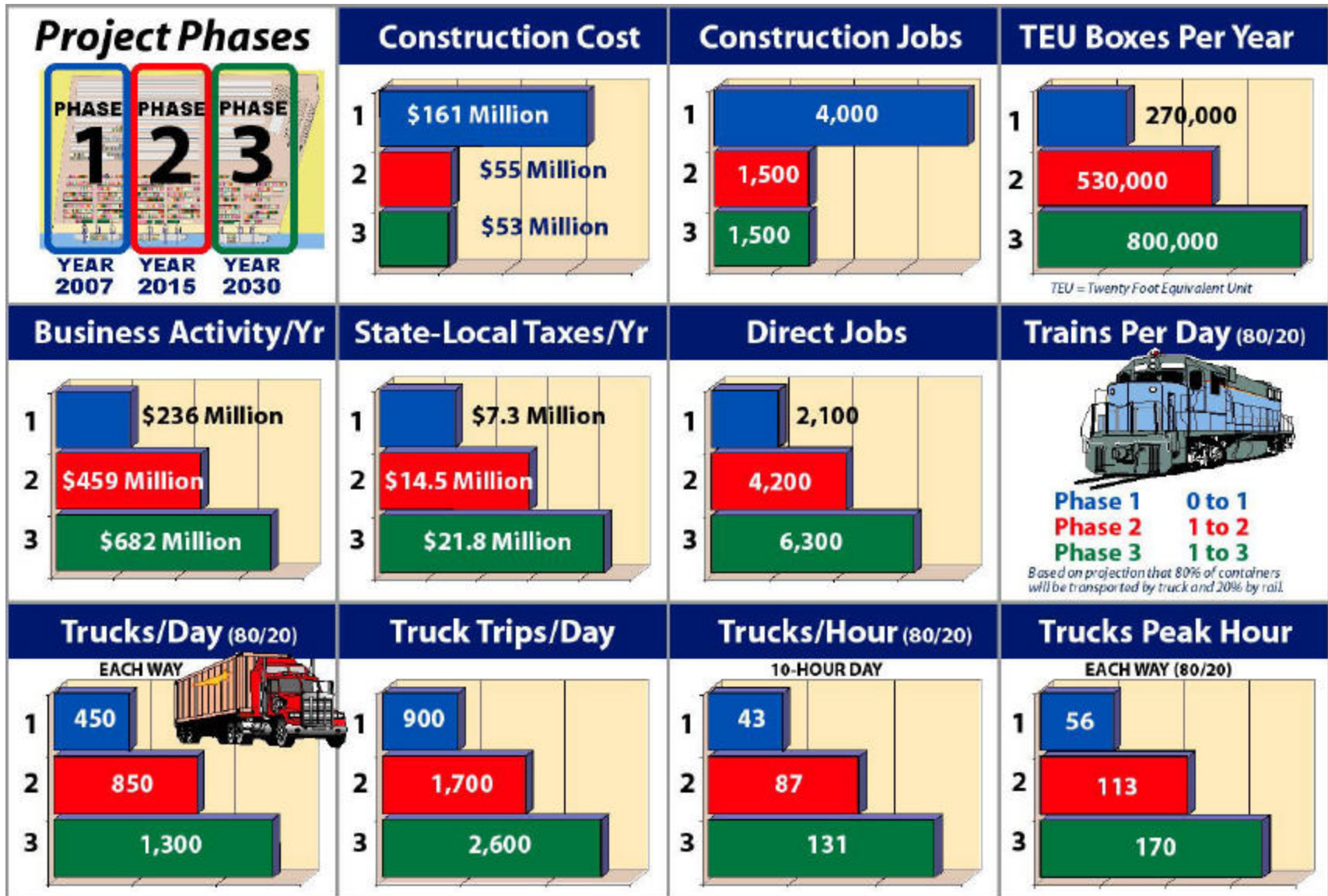
Cotton Storage Facility

550,000 SF on 26 acres of Paving



Potential Terminal Activity*

* Business Activity, State-Local Taxes and Direct Jobs extend beyond this regional area.



Conceptual development phases and potential activity data sources: BA&A 1999; MA 1995

OTHER DEVELOPMENT ACTIVITIES – City/Port



Museum
Expansion

Sports Arena

Outdoor
Amphitheater

Water Taxi

Waterfront
Development Center

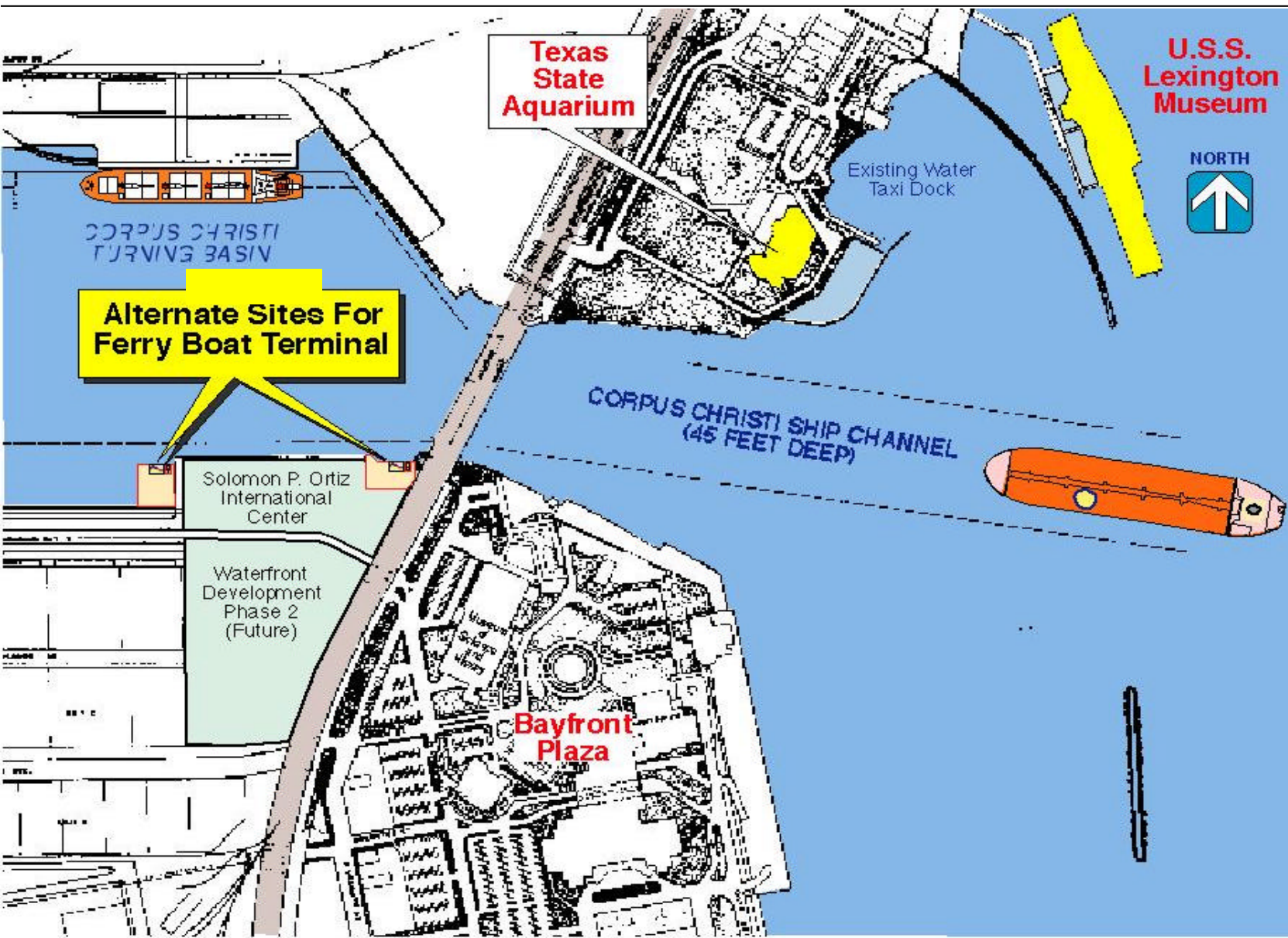
Phase II
Development

Baseball
Stadium

WATER TAXI



WATER TAXI



Baseball Stadium



Whataburger Field

Home of the CC Hooks

(Houston Astros Double-A Affiliate)



09/08/2004

Scheduled Completion: April 2005

An aerial photograph of the Port of Corpus Christi, Texas. The image shows a large body of water with several large white storage tanks and industrial buildings along the shoreline. A large ship is docked at a pier. In the foreground, there is a bridge with a truss structure crossing the water. The sky is clear and blue.

QUESTIONS?

The Port of Corpus Christi

By: David L. Krams P.E.